

# Tedesco Environmental Learning Corridor

MASTER PLAN OPEN HOUSE













## Agenda

- 1. Site History
- 2. Proposed Improvements
- 3. Interpretive Aspects
- 4. Stream Restoration & Habitat Enhancement
- 5. Project Timeline
- 6. Questions













# Site History

Judy Joyce, Earthview Environmental











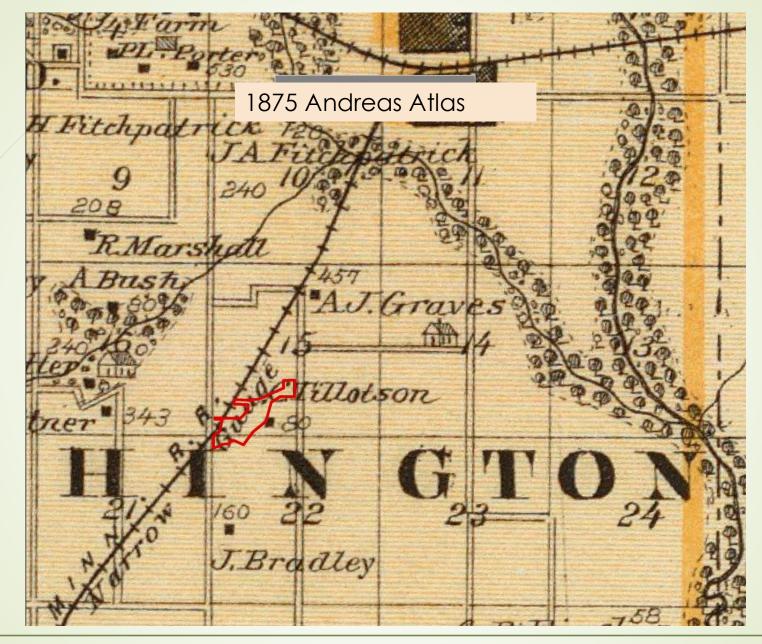
















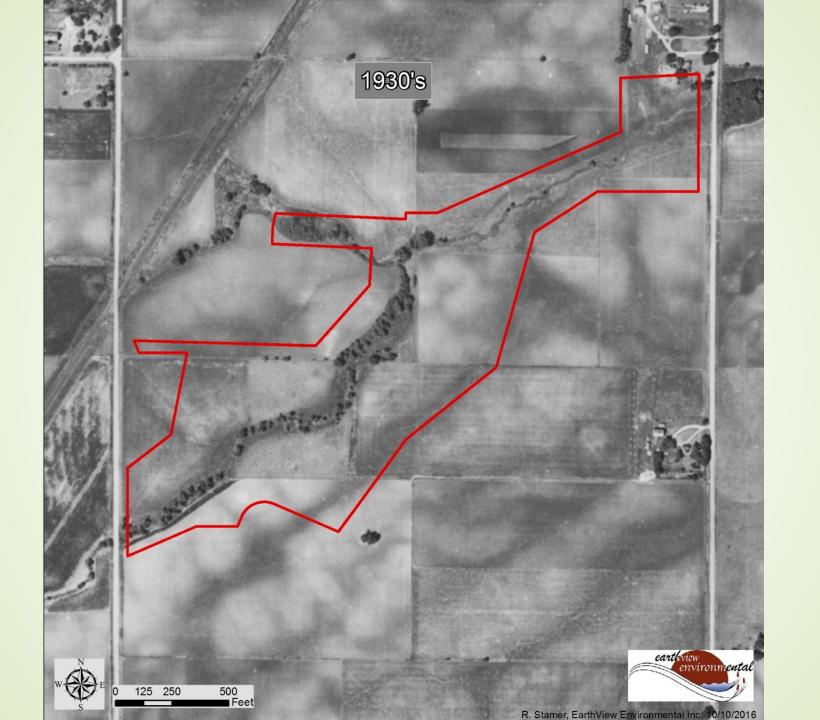


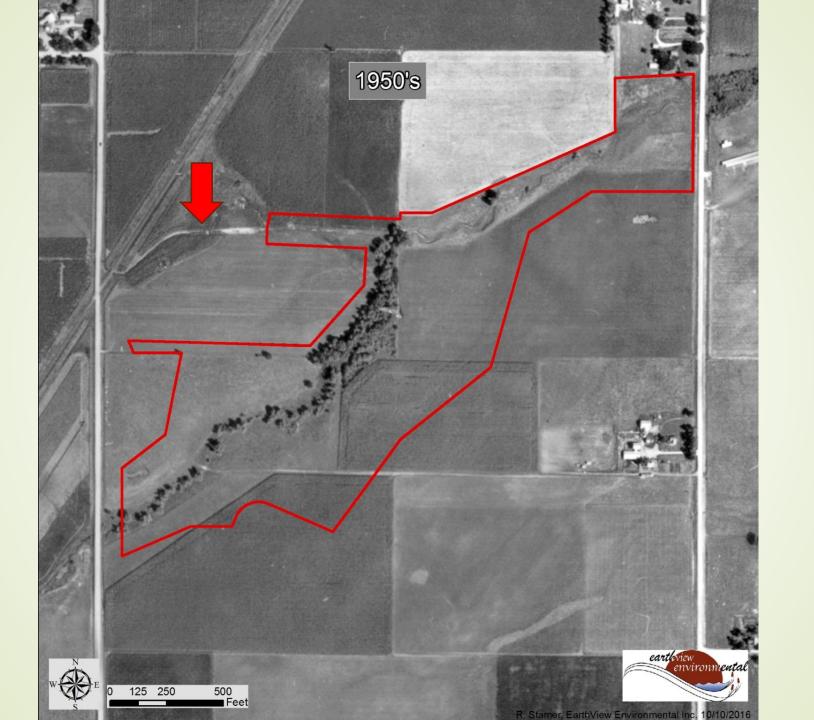


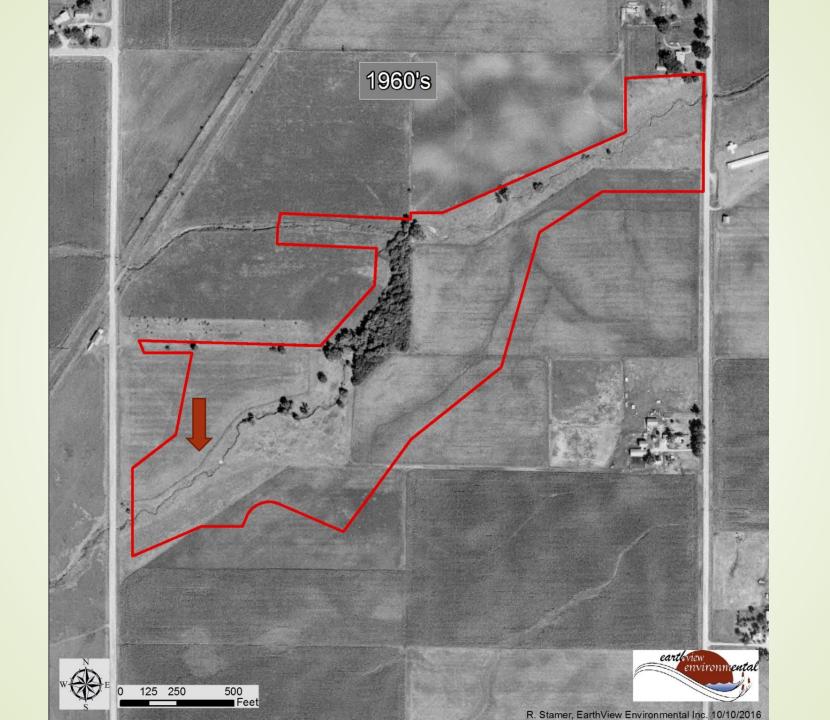


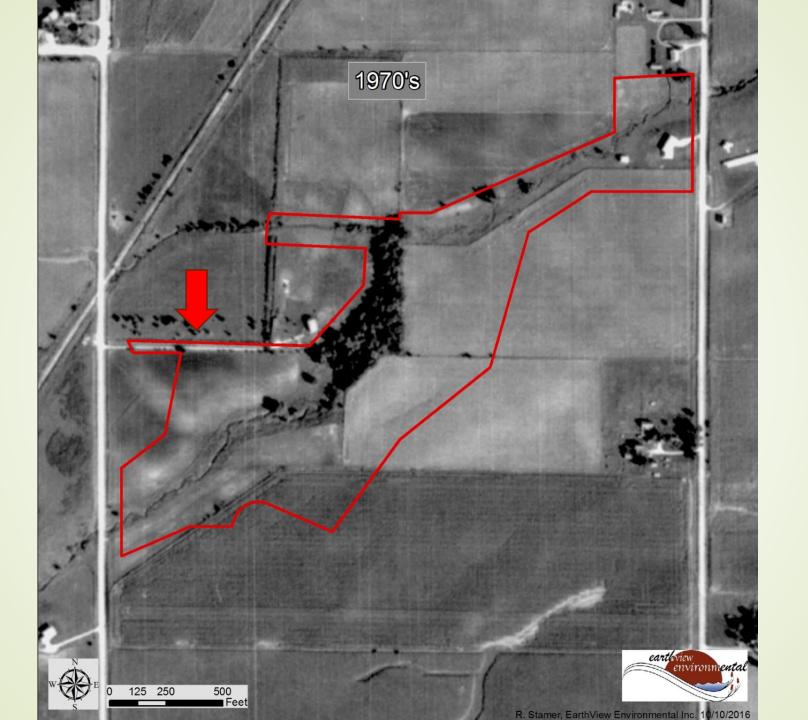


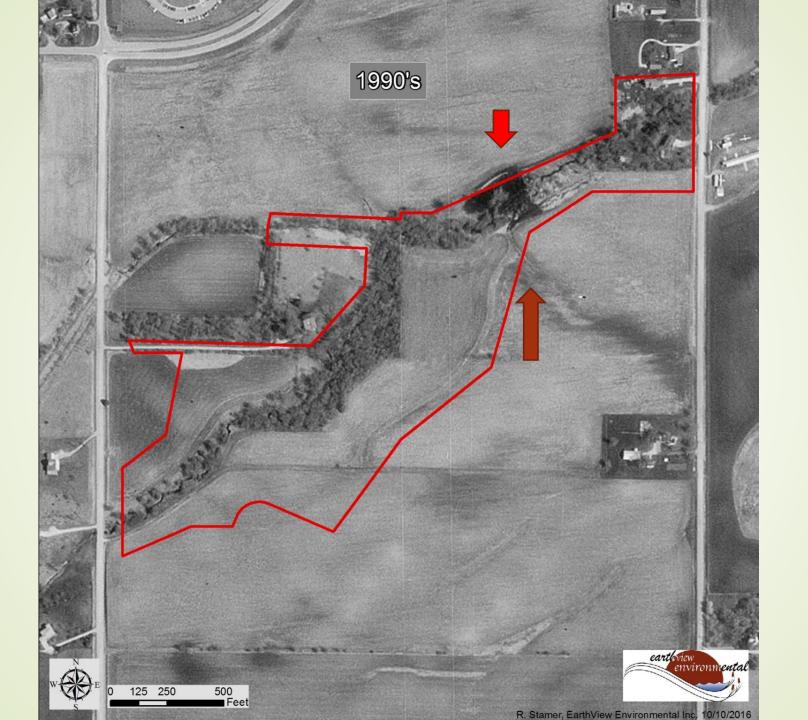




















































# Proposed Improvements

Andrew Dawson, WRT















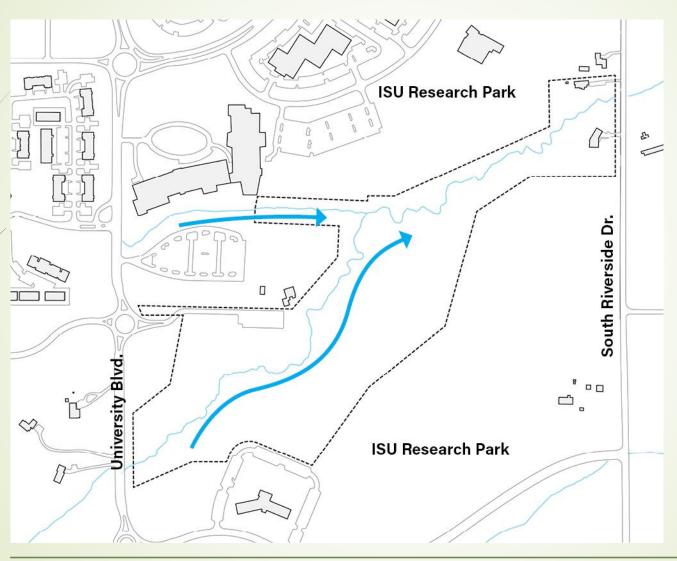








#### Stream Channel



- The Corridor parcel aligns with two stream channels flowing northeast through the site
- Bounded by the ISU Research Park, University Blvd. and South Riverside Dr.

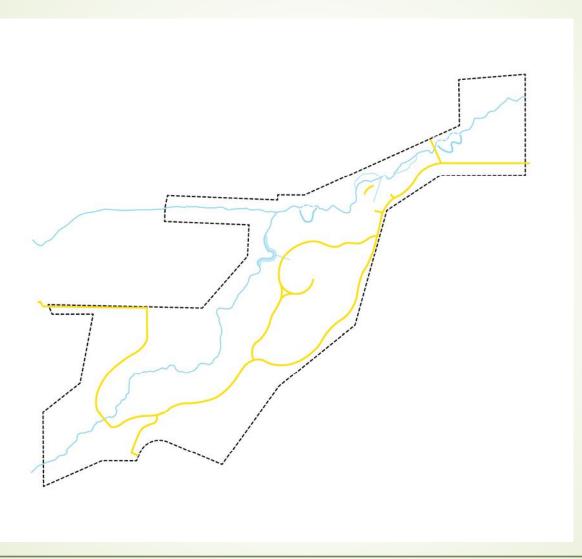








## Circulation - Primary



- Main pathways through the site are paved, 10' wide
- Provide connection east/west and north/south
- Enable visitors to reach most park amenities, but aim to facilitate movement

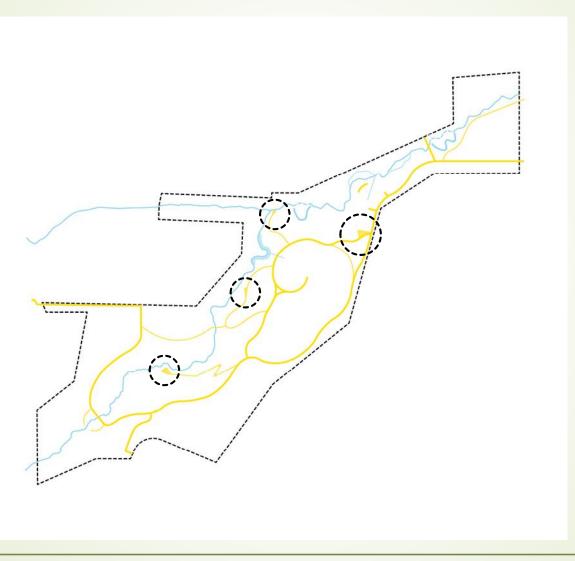








## Circulation - Secondary



- Typically 5' wide, surfaced with mulch or other natural material
- Three small group gathering areas
- One large group gathering area

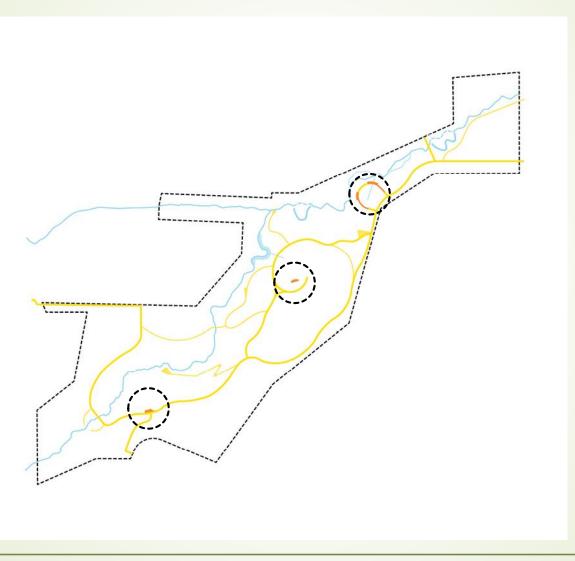








#### Circulation - Boardwalks



- Boardwalks highlight special features
- Wetlands
- Pond Pier
- Welcome Overlook
- Width varies

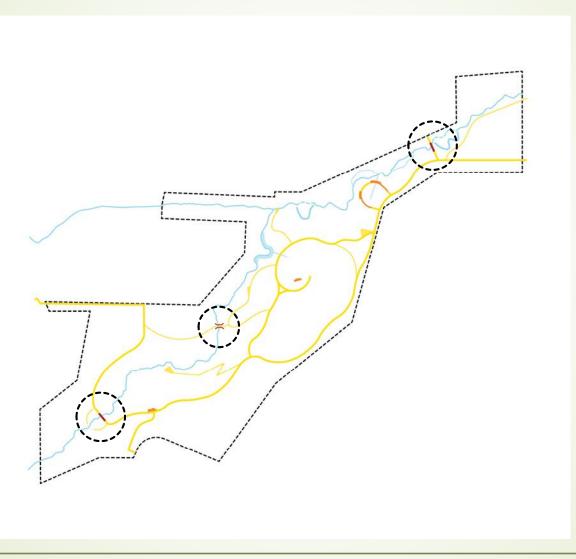








# Circulation - Bridges



- Two 50' pre-fab bridges span the creek at either end of the park
- The Ford is a third crossing, constructed with stepping-stones just above water level









#### Circulation – The Ford





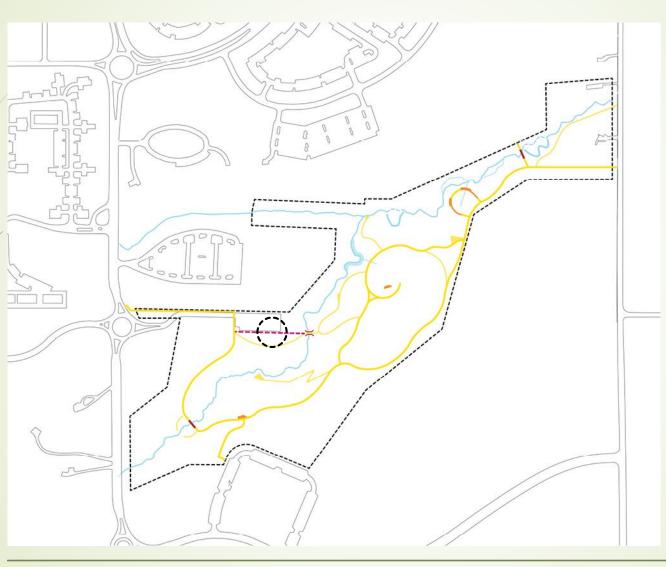








#### Circulation - Future



 The future West entrance road and parking lot could be enhanced with a primary trail and stair down to the Ford



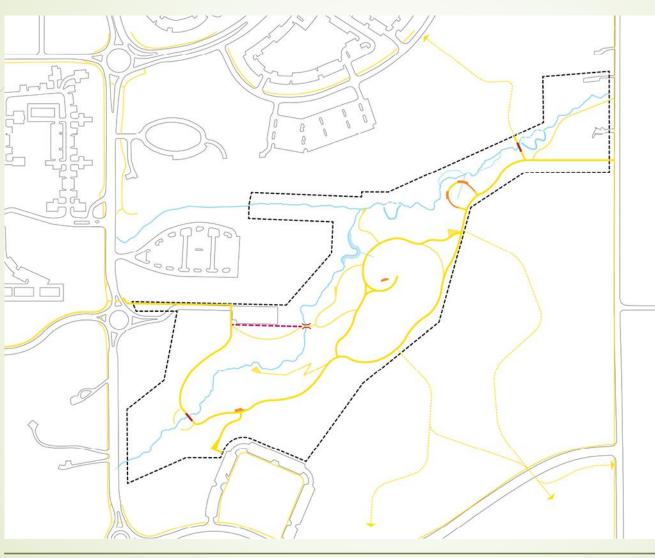
**E** RESOURCES GROUP







### Circulation – Regional Connections



- established to join the TELC with the existing and planned regional trail network
- Outside the TELC, new trails can weave their way through future ISURP development

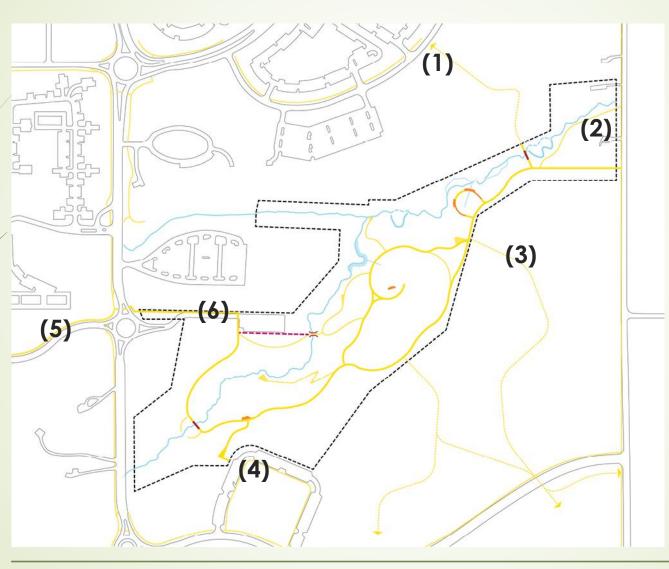








#### Circulation – Access



- (1) North Access Drop-off
- (2) East Access trail connection to S. Riverside Dr. planned bike route
- (3) Future Access by trail to new ISURP development
- (4) South Access and parking at ISURP's Collaboration Place
- (5) Trail connection to R38
- (6) Future vehicular access from University Blvd. with potential to accommodate buses

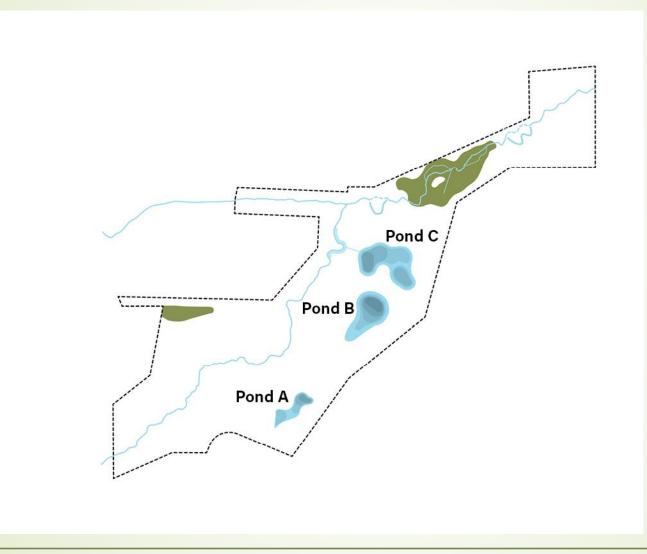








### Vegetation – Wetlands / Ponds



- Two wetland zones, about 5 acres
- Three stormwater ponds (A,B,C) totaling about 3 acres, with fluctuating water levels

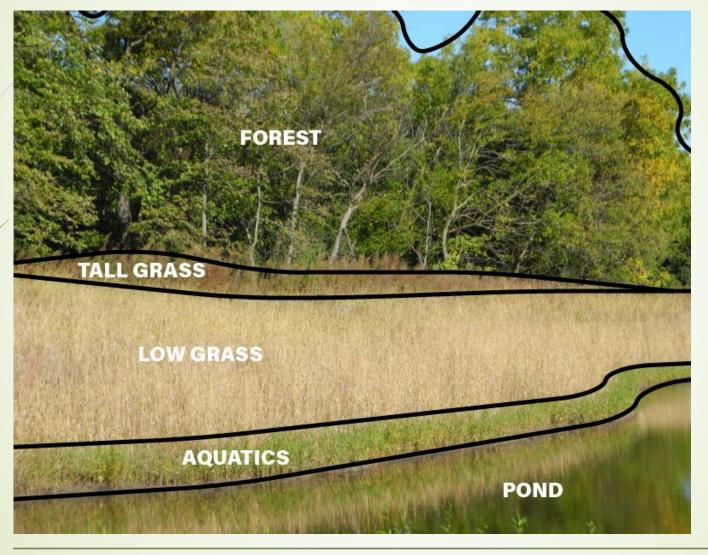








## Vegetation – Layers





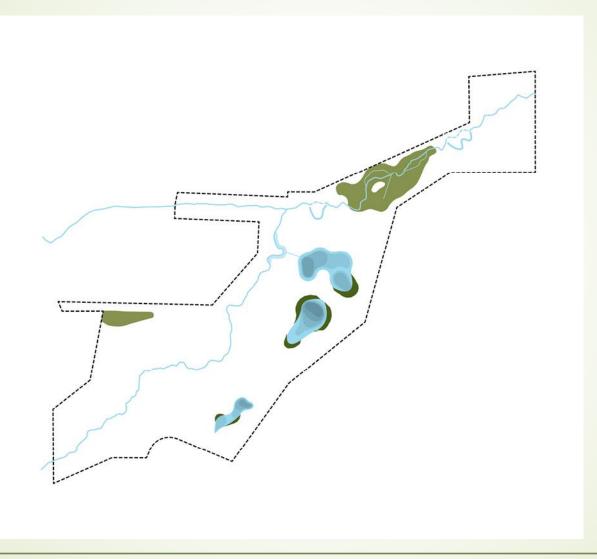








# Vegetation – Aquatics



**Emergent planting at** the water's edge that can tolerate wet or dry conditions

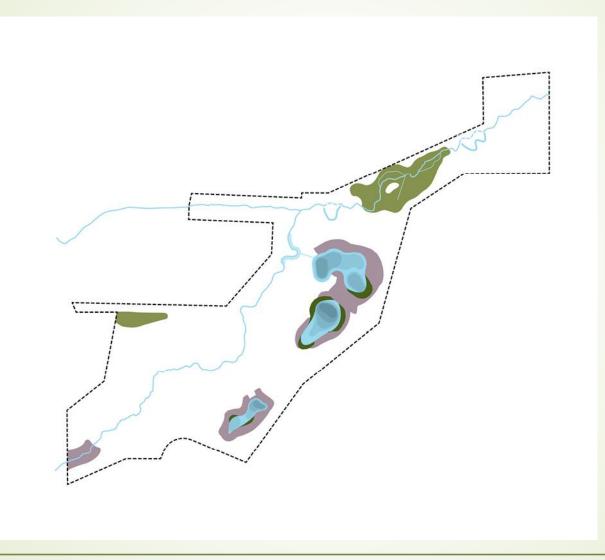








## Vegetation – Riparian



- Bordering the ponds, a layer of transitional planting
- Prefers moist conditions
- Provides habitat and aids in erosion prevention

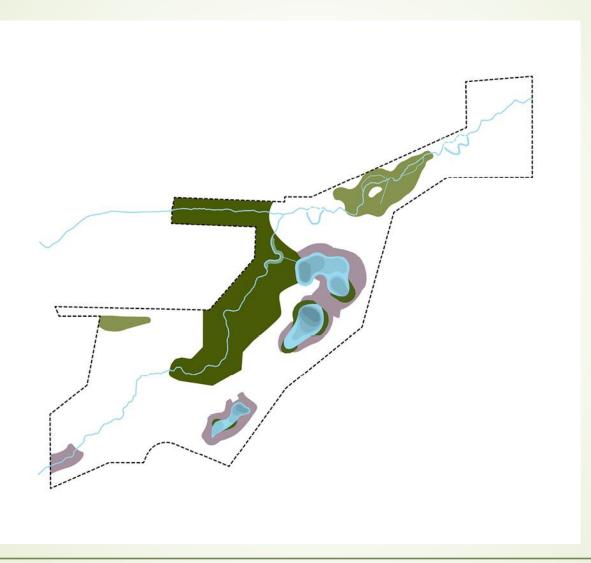








## Vegetation – Forest



- Existing old growth forest remains
- Large Black Walnuts provide unique habitat and visitor experience
- Needs understory and invasive species cleanup



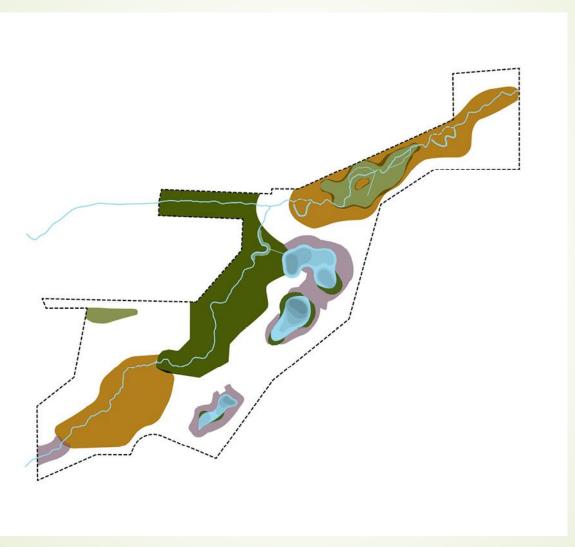








## Vegetation – Savanna



 Savanna zones contain tall grasses and sparse trees, and are found near the stream corridor

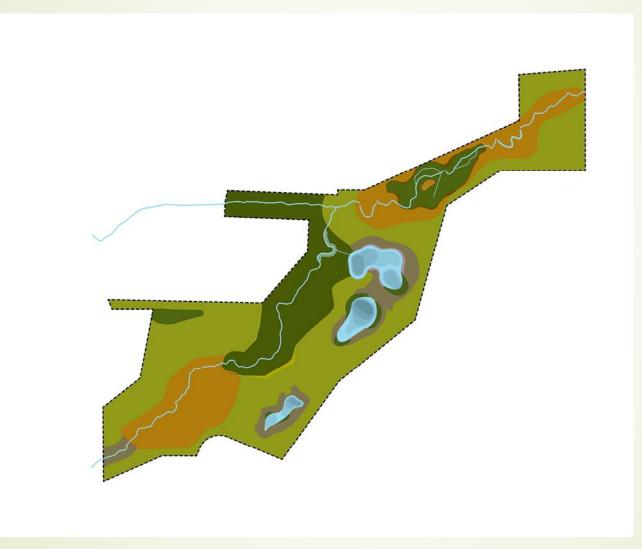








## Vegetation – Prairie



 Upland prairie is intended to be the dominant landscape feature of the TELC

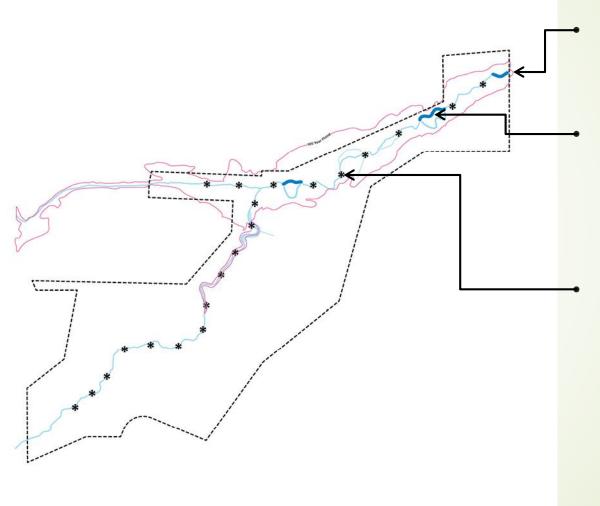








#### Water Features



Roughened channel creates a small cascade viewable from S. Riverside trail Oxbow creation increases habitat potential as a byproduct of reconfiguring the stream channel 21 riffles spaced throughout the TELC, slow erosion and facilitate stream channel restoration

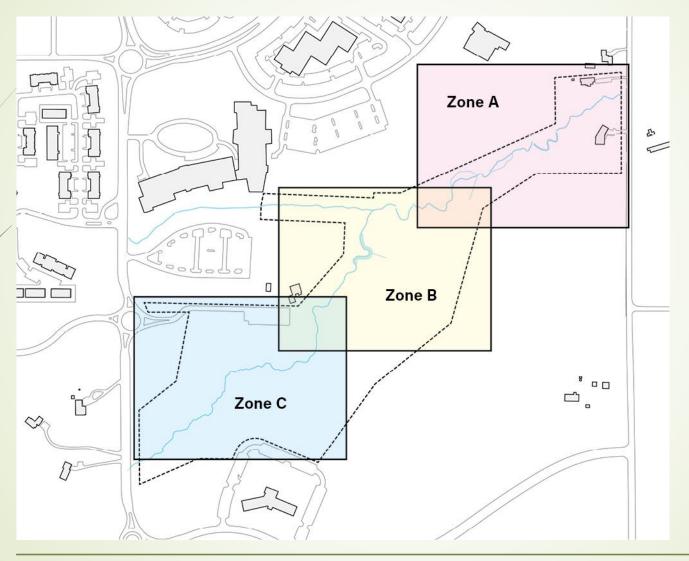








## Program and Amenity







E RESOURCES GROUP







### Program and Amenity – Zone A



- Trail connections
- Cascade
- Bridge
- Oxbow
- Mounds (reusing fill)
- Wetlands and boardwalks











### Program and Amenity - Zone B



- Trail alignments primary/secondary
- The Copse
- The Confluence
- Saturated Buffer at Pond C outfall
- The Nest
- Walnut Grove
- The Ford
- Stone steps / seatwalls











## Program and Amenity – The Nest













#### Program and Amenity – Zone C



- Future access, kiosk, restrooms
- Streamside Rest
- Stone steps / seatwalls
- Overlook
- Bridge / Riffles
- South Access Plaza





















# Interpretive Aspects

Jean Eells, E Resources











## Interpretive Aspects





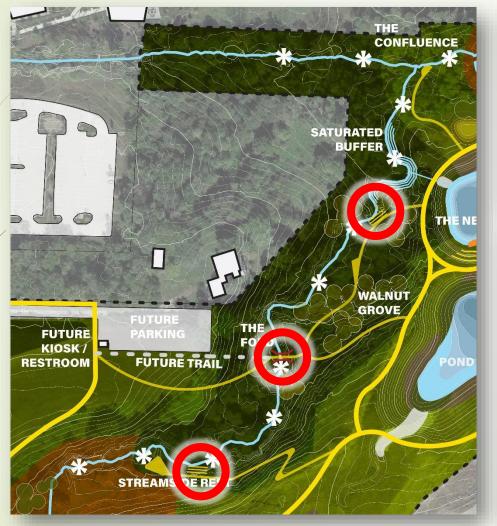








## Interpretive Aspects

















### Stream Restoration

Luke Monat, Shive-Hattery











#### Current Stream Condition

Incised channel

Disconnected from floodplain

Simplified channel





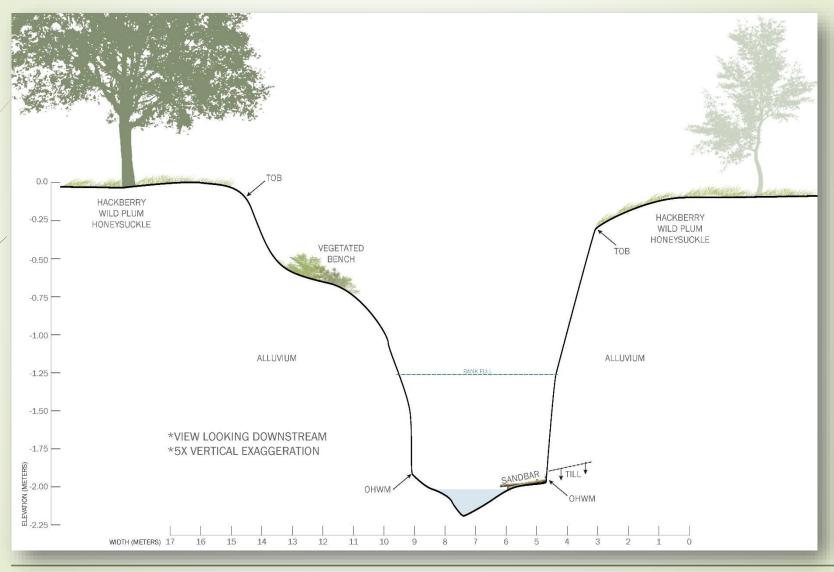








#### Current Stream Condition







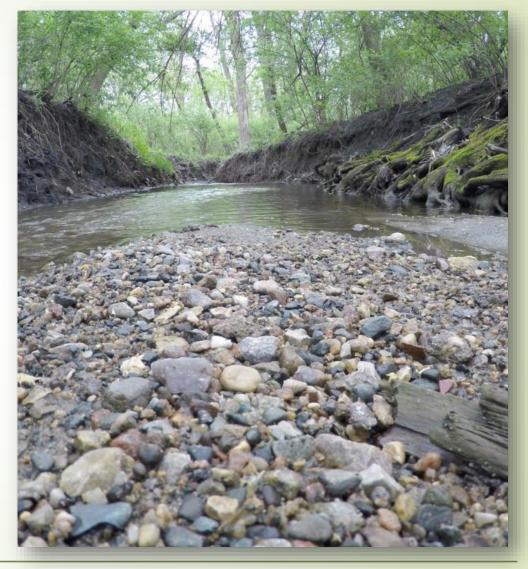






#### Restoration Goals

- Floodplain reconnection
  - Raise streambed
  - Lower floodplain
- Channel stabilization
  - Bioengineering bank stabilization practices
  - Rock riffle grade control
- Habitat enhancements
  - Remove invasive species
  - Re-establish native vegetation
  - Create oxbow wetland





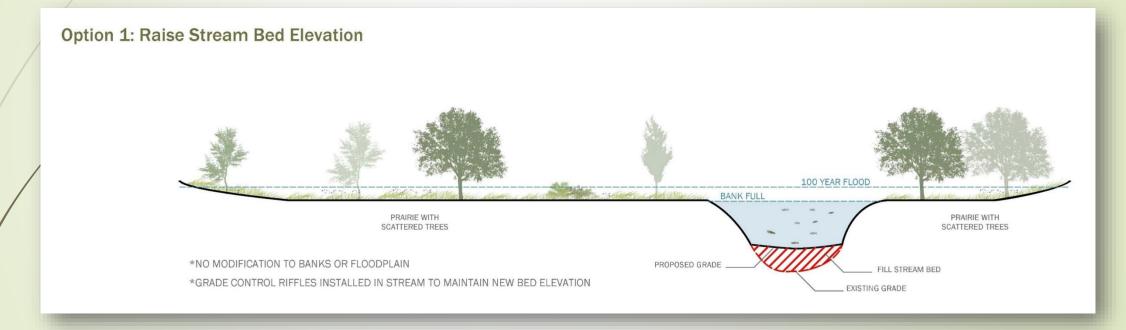








## Restoration Concepts





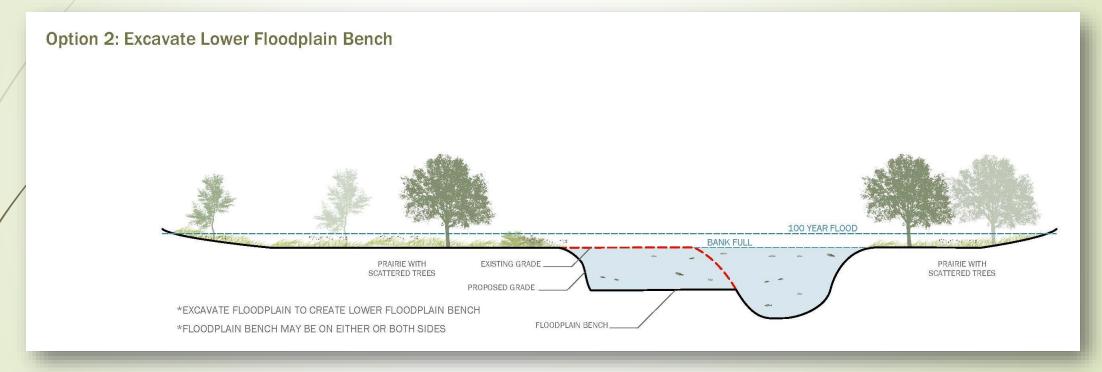








## Restoration Concepts





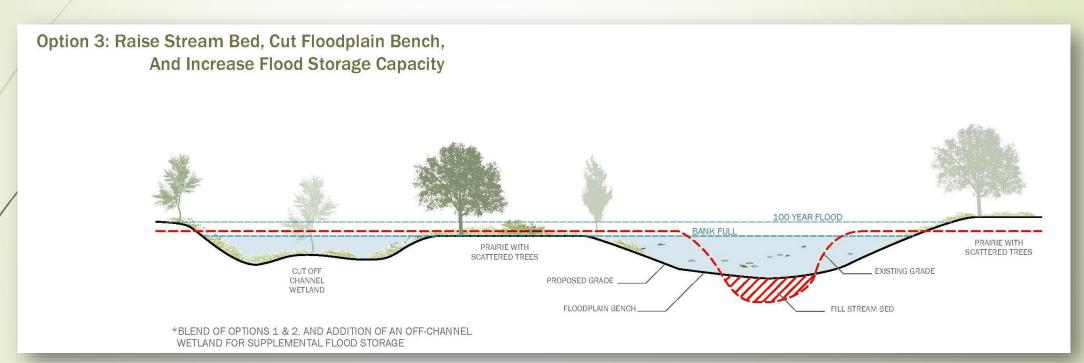








### Restoration Concepts













#### Project Timeline

Stream
Restoration

SUMMER 2018:
Trail
Construction

SUMMER 2019:
Park
Amenities

- Anticipated Project cost of \$4 million
- Phase 1 budget of \$1.65 Million











# Questions?

